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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number			
Filing Date			
First Named Inventor		Arthur Shulenberger	
Art Unit			
Examiner Name			
Sheet	1	of	1
Attorney Docket Number			

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		LJK SETRIGHT, Some Unusual Engines, 1975, pp. 99-105, Mechanical Engineering Publications Limited, ISBN 0 85298 208 9	
		ROBERTS, "Benefits and Challenges of Variable Compression Ratio (VCR)," SAE Paper 2003-01-0398	
		MENDLER and GRAVEL, "Variable Compression Ratio Engine," SAE Paper 2002-01-1940	
		MCLANAHAN, "Barrel Aircraft Engines: Historic Anomaly or Stymied Innovation?" SAE Paper 985597	
		SOBOTOWSKY, PORTER and PILLEY, "The Development of a Novel Variable Compression Ratio, Direct Injection Diesel Engine," SAE Paper 910484	
		HALL, "More Power from Less Engine," SAE Journal, Dec. 1940, pp. 504-519, vol. 47, No. 6	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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First Named Inventor	Arthur Shulenberger
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Patent Number	Month / Year	Inventor	Classification
575,991	01/1897	Schonheyder	
748,559	12/1903	Peet	
773,206	10/1904	Hall	
780,549	01/1905	Callan	
812,636	02/1906	Callan	
821,546	05/1906	Smallbone	
868,947	10/1907	Smith	
876,202	01/1908	Lege	
893,181	07/1908	Macomber	
933,316	09/1909	Macomber	
1,038,537	09/1912	Dexter	
1,042,018	10/1912	Macomber	
1,233,635	07/1917	Almen	
1,255,973	02/1918	Almen	
1,282,179	10/1918	Brackett	
1,282,180	10/1918	Brackett	
1,300,098	04/1919	Almen	
1,316,679	09/1919	Brackett	
1,346,672	07/1920	Patton	
1,355,485	10/1920	Lleo, et al.	
1,370,927	03/1921	Staupe	
1,411,556	04/1922	Almen	
1,520,960	12/1924	Nagelmann	
1,582,076	04/1926	Page	
1,637,017	07/1927	Almen	
1,679,924	08/1928	Almen	
1,696,676	12/1928	Fuhr	
1,698,102	01/1929	Michell	
1,732,659	10/1929	Redrup	
1,787,493	01/1931	Redrup	
1,808,380	06/1931	Royal	
1,814,946	07/1931	McGeorge	
1,819,137	08/1931	Thompson	
1,825,691	10/1931	Hall	
1,844,386	02/1932	Harris et al.	
1,869,440	08/1932	Schlenker	
1,891,927	10/1932	Hall	
1,895,206	01/1933	Ricardo	
1,948,827	02/1934	Redrup	
1,968,470	07/1934	Szombathy	
1,978,194	10/1934	Gray	
2,009,495	07/1935	Hulsebos	
2,028,557	01/1936	Nevatt	
2,042,730	06/1936	Redrup	
2,065,790	12/1936	Braunwalder	

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

U.S. PATENT DOCUMENTS

Page 2 of 3

2,083,730	06/1937	Michell	
2,097,138	10/1937	Steele	
2,105,019	01/1938	Turner	
2,150,162	03/1939	Hall	
2,152,351	03/1939	Hall	
2,152,811	04/1939	Michell	
2,216,342	10/1940	Hall	
2,216,343	10/1940	Hall	
2,222,294	11/1940	Hall	
2,251,543	08/1941	Hulsebos	
2,257,258	09/1941	Hulsebos	
2,258,127	10/1941	Almen	
2,258,138	10/1941	Hall	
2,278,696	04/1942	George	
2,282,721	05/1942	Hall	
2,282,722	05/1942	Hall	
2,341,203	02/1944	Borer	
2,379,119	06/1945	Tucker	
2,403,282	07/1946	Holmes	
2,424,660	07/1947	Howard	
2,451,455	10/1948	Willson	
2,464,228	03/1949	Hall	
2,475,295	07/1949	Sherman	
2,583,564	01/1952	Hall	
2,650,676	09/1953	Jamotte	
2,737,055	03/1956	Dauben	
2,827,792	03/1958	Hopkins	
2,918,012	12/1959	Lucien	
3,007,462	11/1961	Balzer	
3,101,621	08/1963	Bunyan	
3,180,159	04/1965	Girodin	
3,182,644	05/1965	Drtina	
3,196,698	07/1965	Liddington	
3,212,483	10/1965	Balzer	
3,257,855	06/1966	Dangauthier	
3,276,276	10/1966	Dangauthier	
3,319,874	05/1967	Welsh	
3,357,209	12/1967	Mooney	
3,398,699	08/1968	Stark	
3,528,317	09/1970	Cummins	
3,528,394	09/1970	Cummins	123/58
3,910,242	10/1975	Hom et al.	123/57 R
3,943,895	03/1976	Howell	123/58 AA
3,945,359	03/1976	Asaga	123/58 R
4,066,049	01/1978	Teodorescu et al.	123/48 R
4,077,269	03/1978	Hodgkinson	74/60
4,152,944	05/1979	Kemper	74/191
4,166,398	09/1979	Girodin	74/60
4,207,779	06/1980	Papst	74/579 R
4,209,980	07/1980	Pronovost et al.	60/517

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

U.S. PATENT DOCUMENTS

Page 3 of 3

4,433,596	02/1984	Scalzo	74/839
4,454,779	06/1984	Vos	74/60
4,497,284	02/1985	Schramm	123/41.47
4,502,427	03/1985	Brille	123/90.41
4,515,113	05/1985	DeLorean	123/48 C
4,506,536	05/1985	Williams	123/39
4,523,549	06/1985	Lacy	123/58 BC
4,688,439	08/1987	Cureton et al.	74/60
4,727,761	03/1988	Scalzo	74/60
4,736,715	04/1988	Larsen	123/64
4,869,212	09/1989	Sverdlin	123/56 BC
4,905,637	03/1990	Ott	123/58 B
4,986,226	01/1991	Lacy	123/58 BC
5,007,385	04/1991	Kitaguchi	123/48 B
5,027,755	07/1991	Henry, Jr.	123/58 B
5,027,756	07/1991	Shaffer	123/58 R
5,083,532	01/1992	Wiesen	123/58 B
5,094,195	03/1992	Gonzalez	123/58 BA
5,103,778	04/1992	Usich, Jr.	123/58 AB
5,113,809	05/1992	Ellenburg	123/58 BA
5,205,718	04/1993	Fujisawa et al.	417/222.2
5,269,193	12/1993	Rabinow	74/60
5,273,012	12/1993	Brock	123/58 B
5,368,449	11/1994	Kimura et al.	417/269
5,415,077	05/1995	Ono	92/71
5,437,251	08/1995	Anglim et al.	123/56.3
5,442,971	08/1995	Romanchev et al.	74/53
5,450,823	09/1995	Istomin	123/56.3
5,553,582	09/1996	Speas	123/56.4
5,564,372	10/1996	Llewellyn	123/56.3
5,638,778	06/1997	James	123/56.6
5,749,337	05/1998	Palatov	123/56.2
5,752,413	05/1998	Kuhn et al.	74/60
5,762,039	06/1998	Gonzalez	123/197.3
5,782,219	07/1998	Frey et al.	123/56.3
5,904,044	05/1999	White	60/443
5,950,580	09/1999	Birckbichler	123/56.2
5,992,357	11/1999	Tasi	123/56.2
6,003,480	12/1999	Quayle et al.	123/56.1
6,098,578	08/2000	Schuko	123/56
6,164,252	12/2000	Kuhn et al.	123/56.3
6,202,606	03/2001	Anttila	123/56.1
6,305,334	10/2001	Schuko	123/56.2
6,305,335	10/2001	O'Toole	123/56.3
6,390,052	05/2002	McMaster et al.	123/247
6,397,794	06/2002	Sanderson et al.	123/48 B
6,487,858	12/2002	Cammack	60/517
US 2003/0046932		Isaac, Jr. et al.	60/643

Related Provisional Application:

Provisional U.S. Patent Application No. 60/442,020